



FIVE-YEAR REVIEW FACT SHEET

FORMER NAVAL INDUSTRIAL RESERVE ORDNANCE PLANT

FRIDLEY, MINNESOTA

WHAT IS A FIVE-YEAR REVIEW?

Five-year reviews determine if the remedies at a site are and will remain protective of human health and the environment. If any issues that affect protectiveness are identified during the five-year review, recommendations are made to address them. The five-year review addresses three major questions:

- Are the remedies functioning as intended?
- Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of remedy selection still valid?
- Has any other information surfaced that could affect the protectiveness of the remedy?

The fifth five-year review for former Naval Industrial Reserve Ordnance Plant (NIROP) in Fridley, Minnesota, completed in 2018, was conducted because hazardous substances, pollutants, or contaminants remain at three Operable Units (OUs) in excess of levels that allow for unlimited use and unrestricted exposure and for which there are Records of Decision (RODs) in place.

NIROP CHRONOLOGY

- 1989** — National Priorities List (NPL) Listing: NIROP Fridley was placed on the NPL and identified as needing a long-term cleanup plan.
- 1991** — Federal Facility Agreement (FFA) established. The Department of the Navy, United States Environmental Protection Agency (U.S. EPA), and Minnesota Pollution Control Agency (MPCA) agree to coordinate cleanup efforts to achieve cleanup objectives.
- 1998** — First Five-Year Review (OU 1).
- 2003** — Second Five-Year Review (OU 1).
- 2008** — Third Five-Year Review (OUs 1, 2, and 3).
- 2013** — Fourth Five-Year Review (OUs 1, 2, and 3).
- 2018** — Fifth Five-Year Review (OUs 1, 2, and 3).

NIROP HISTORY

NIROP Fridley is located in the northern portion of the Minneapolis/St. Paul Metropolitan Area in an industrial/ commercial area within the limits of Fridley, Minnesota. In 1940 the Navy contracted with Northern Pump Company to construct and operate a new plant for the manufacture of naval gun mounts. The 80.35-acre facility was partially owned by the government and partially owned by Northern Pump Company. The Northern Pump Company assets and responsibility for operation of the Navy portion of the facilities changed hands several times until, in 1997, the Carlisle group purchased United Defense LP (UDLP). The northern portion of the facility (NIROP site) was government owned and operated by a private contractor (UDLP-Armament System Division), and the remainder of the facility was owned and operated independently by UDLP (now BAE). The Navy sold its interest in the NIROP property in 2004 but continues to have responsibility for cleanup of the NIROP site.



Between the 1940s and 1969, disposal of industrial wastes (including plating wastes, paint, paint sludges, oils, boiler ash and cinders, and chlorinated and non-chlorinated solvents) generated by the naval ordnance manufacturing facility occurred on portions of the site. In the late 1960s and early 1970s, limited disposal of materials such as waste oils, paint sludges, and chlorinated solvents occurred in pits and trenches in the NIROP portion of the facility. The Navy, U.S.EPA, and MPCA have been

working together on the environmental cleanup program at NIROP since the early 1980s. Cleanup remedies that have been implemented to address contaminated soil and groundwater at the site include land use controls (LUCs) and groundwater extraction and treatment.

MAJOR DEVELOPMENTS SINCE THE LAST FIVE-YEAR REVIEW

- In 2013, a Memorandum to File was issued that clarified the definitions of the OUs.
- U.S. EPA determined that all appropriate response actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), other than operation, maintenance and five-year reviews had been completed at OU2. EPA published a direct final Notice of Deletion of OU2 from the NPL in 2014.
- Site redevelopment activities began in 2014 under MPCA’s Voluntary Investigation and Cleanup (VIC) Program.
- An Explanation of Significant Differences (ESD) was issued in 2014 to document incorporation of LUCs into the OU1 remedy.
- Based on the results of additional soil sampling and a soil removal, an ESD for OU3 was issued in 2017 documenting removal of the requirement for maintenance of the concrete pit floor area of the former Plating Shop as an engineering control.

REMEDY PROTECTIVENESS SUMMARY

Operable Unit	Definition	Date of ROD	Remedy Components	Recommendations/ Required Follow-Up Action	Remedy Protectiveness
1	Contaminated groundwater within the NIROP site boundary and throughout the areal extent of contaminated groundwater originating from the site and including “saturated soils” that are part of the aquifer material	1998	Hydraulic containment, groundwater extraction and treatment, and LUCs	None	Protective
2	All unsaturated soils within the legal boundaries of the NIROP Superfund site exclusive of unsaturated soils underlying the former Plating Shop Area.	2003	LUCs	None	Protective
3	Only the unsaturated soils underlying the former Plating Shop Area.		LUCs	None	Protective

ISSUES, RECOMMENDATIONS, AND FOLLOW-UP ACTIONS

In the fifth five-year review for NIROP Fridley, no issues that affect the protectiveness of the remedies were identified for OUs 1, 2, or 3. Therefore, there are no recommendations, and no follow-up actions are required at this time to ensure current or future protectiveness.

NEXT FIVE-YEAR REVIEW

The next five-year review for NIROP Fridley is due in November 2023.

COMMUNITY INVOLVEMENT

Public notices announcing the initiation of this five-year review were published in the *Star Tribune* on October 13, 2017, and *Sun Focus* on October 20, 2017. The Five-Year Review Report can be found in Administrative Record File for NIROP Fridley available on the NAVFAC Environmental Restoration Program’s NIROP Fridley public website:

<https://go.usa.gov/xEBZu>

CONTACT INFORMATION

The Navy is the lead agency responsible for ensuring five-year reviews at NIROP Fridley.

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